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11652625  
12W37 C2

# Washington Annual Data Summary

## Water Year 1992

United States  
Department of  
Agriculture  
Soil  
Conservation  
Service



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## An Annual Summary

## Foreword

This report summarizes the snow water equivalent and precipitation data collected during this water year. This information was utilized in preparing the Soil Conservation Service Water Supply Outlook Reports, January 1st through June 1st.

These data were obtained using a combination of manual and automated measurement methods and are presented as a historical summary.

## For More Information

Copies of this Annual Data Summary and Monthly Water Supply Outlook Reports may be obtained from the states listed below. Historical snow survey data may be obtained at those same offices. Computer access to water supply information may be gained through the Centralized Forecast System (CFS) at Portland, Oregon. For more information contact the state offices listed below.

STATE	ADDRESS
Alaska	949 E. 36th Avenue, Suite 400, Anchorage, AK 99508-4302
Arizona	201 E. Indianola, Suite 200, Phoenix, AZ 85012
California	2121-C 2nd Street, Suite 102, Davis, CA 95616-5475
Colorado	655 Parfet Street, Room E200C, Lakewood, CO 80215-5517
Idaho	3244 Elder Street, Room 124, Boise, ID 83705-4711
Montana	Federal Building, Room 443, 10 E. Babcock, Bozeman, MT 59715
Nevada	5301 Longley Lane, Building F, Suite 201, Reno, NV 89511
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Oregon	Green-Wyatt Federal Bldg., 1220 SW Third Ave., Room 1640, Portland, OR 97204
Utah	245 North Jimmy Doolittle Road, Salt Lake City, UT 84116
Washington	Rock Pointe Tower II, Suite 450, W. 316 Boone Ave., Spokane, WA 99201-2348
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

Annual and historical information is prepared by other agencies including: NOAA - State Climatological Annual Summaries, N.C.D.C., Asheville, NC 28801; California - Snow Survey Branch, California Department of Water Resources, P.O. Box 942836, Sacramento, CA 94236-0001; British Columbia - The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory - Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta Environment Technical Services Division, 9820 106th St., Edmonton, Alberta, T5K 2J6.

## Other Sources

Washington  
Cooperative Snow Survey Data  
of  
Federal - State - Private  
Cooperative Snow Surveys

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# Snow Course Data - WY 1992 (Depth & SWE in inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			
		DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	
AHTANUM R.S.	3100	1/2	9	2.0	1/30	9	3.0	2/28	6	2.4	3/31	0	.0							
ALPINE MEADOWS	3500				1/30	22	5.5	2/24	24	6.8	3/23	9	3.4							
BAIRD #2	3220				2/3	10	2.4	2/29	6	1.7	3/26	0	.0	5/1	12	5.3	5/28	0	.0	
BEAVER CREEK TRAIL	2200				2/3	43	16.0	2/26	44	18.2	3/37	33	13.8							
BEAVER PASS	3680				2/3	43	17.2	2/28	44	16.8	3/31	35	14.8							
BERNE-MILL CREEK	3170	12/30	32	9.1	1/30	43	-	12.9												
BIG BOULDER CREEK	3200	Est	-	8.4	Est	-		22	8.2		2/25	56	17.7	3/24	43	16.6	4/30	14	6.8	
BLEWETT PASS #2	4270				1/30	8	2.0	3/1	0	.0	3/27	0	.0							
BOYER MOUNTAIN	5250				1/30	8														
BRIEF	1600				2/3	132	47.4	2/26	130	47.0	3/26	100	44.2	5/1	87	41.6	5/28	40	22.6	
BROWN TOP AM	6000																			
BUMPING LAKE	3450	12/27	8	2.5	1/30	14	5.6	2/27	16	6.8	3/30	1	.5							
BUMPING LAKE (NEW)	3400	12/27	11	3.6	2/13	12	5.0	3/12	10	4.8										
BUNCHGRASS MEADOWS	5000	Est	-	12.0	Est	-	19.7	2/24	72	22.5	3/23	58	21.9	4/29	30	14.5	Est	-	.0	
BUTTE CREEK	4070	Est	-	3.4	Est	-	8.2	Est	-	8.3	3/26	8	2.6							
CAYUSE PASS	5300	Est	-	31.4	Est	-	58.2	2/27	125	49.7	Est	-	35.4							
CHEWELAH	4930																			
CHEWELAH #2	4930																			
CHIWAUKUM G.S.	2500	12/30	12	2.8	1/30	14	4.3	2/28	14	5.1	3/31	0	.0							
CITY CABIN	2390																			
CLOUDY PASS AM	6500				2/3	88	30.8				3/25	74	35.5							

## Snow Course Data - WY 1992 (Depth & SWE in inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
		DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE
COLOCKUM PASS	5370	12/31	52	17.3	Est	-	2.4				3/26	23	9.1						
CORRAL PASS	6000	12/31	14	4.8															
COUGAR MOUNTAIN(d)	3200	12/31																	
COX VALLEY	4500				1/30	55	19.3	2/28	68	26.1	3/28	54	23.9	4/26	39	18.7			
DEER PARK	5200				1/29	27	9.1	2/26	31	11.1	3/31	15	6.8	4/27	2	.9			
DEVILS PARK	5900				2/3	100	28.4	2/26	99	36.2	3/26	82	34.6	5/1	68	31.2	5/29	28	15.8
DOCK BUTTE AM	3800	Est	78	29.6	Est	72	21.6	2/25	90	43.0	3/25	68	3.5						
EASY PASS AM	5200	12/28	60	23.0	Est	138	41.4	2/25	146	69.0	3/25	124	64.0						
FISH LAKE	3370	12/27	42	13.4	1/30	58	21.0	2/27	58	23.4	3/31	28	13.1						
1/14	51	15.3	2/13	52	19.9	3/12	46	20.1											
FREEZEOUT CK. TRAIL	3500				2/3	22	6.6	2/27	21	7.3	3/27	4	1.4	5/1	0	0	5/28	0	0
GOAT CREEK	3600				1/30	17	4.4	2/27	14	4.6	3/26	0	0						
GRANITE CREEK	3500				2/3	40	14.1	2/27	41	13.4	3/26	22	9.0	5/1	0	0	5/29	0	0
GRASS MOUNTAIN #2	2900				1/30	50	15.5	2/28	56	19.3	Est	-							
GREEN LAKE	6000				0	2/3	0	0	3/2	0	3/28	0	0	4/28	0	0	5/31	0	0
GROUSE CAMP	5380				1/30	30	10.2	Est	-										
HARTS PASS	6500				2/3	96	25.8	2/26	99	35.1	3/26	82	34.4	5/1	65	29.8			
HURRICANE	4500				2/3	19	5.0	3/1	13	4.6	3/29	1	.6	4/25	0	.0			
JASPER PASS AM	5400	12/28	90	35.0	Est	162	51.8	2/25	168	79.0	3/25	130	65.0						
KELLER RIDGE	3700				1/21	21	4.8	2/26	11	3.8									
KROMONA MINE	2400				2/3	4	1.7	2/26	0	.0									
LAKE CLE ELUM	2200	12/28	3	.7	1/30	0	0	2/26	0	0	3/30	0	0						
1/13	6	1.2	2/12	0	0	0	0	0	0	0	0	0	0						

# Snow Course Data - WY 1992 (Depth & SWE in inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			
		DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	
LESTER CREEK	3100	12/31	18	5.2	2/3	23	7.0	3/2	26	8.8	4/28	8	3.4	5/31	0	0	0	0	0	
LITTLE MDWS AM	5280	Est	-	25.4	2/3	94	32.8				3/25	76	36.5							
LYMAN LAKE	5900	Est	-	25.4	131	45.3					104	48.1								
LYNN LAKE	4000	12/31	24	8.8	2/3	15	6.5	3/2	14	6.5	4/28	4	2.0	5/31	0	0	0	0	0	
MARTEN LAKE AM	3600	Est	52	19.8	Est	84	25.2	2/25	110	57.0	3/25	90	47.0							
MEADOWS CABIN	1900				2/3	0	0	2/26	0	0	3/26	0	0	5/1	0	0	5/28	0	0	
MERRITT	2140	12/30	9	2.3	1/30	15	4.6	2/28	12	4.1	3/31	0	0	5/1	0.0	0	5/28	0	0	
MIDDLE SULTAN	3010				2/3	0	0	2/26	0	0										
MISSION RIDGE	5000				2/1	29	8.7	3/2	38	11.6	3/27	28	11.1							
MOUNT TOLMAN	2000				1/21	12	2.3	2/27	0	0										
MOSES MEADOWS (3)	3800				1/23	13	2.2	2/26	9	2.9	4/2	0	0							
MOSES MOUNTAIN (1)	4800				1/24	36	9.2	2/25	64	20.6	4/2	51	18.6							
MOSES PEAK (2)	6650				1/24	26	7.8	2/25	42	13.0	4/2	25	10.4							
MT. BLUM AM	5800	12/28	55	21.0	Est	108	31.3	2/25	120	56.0	3/25	103	49.0							
MT. GARDNER	3300							2/26	0	0	3/30	0	0							
MUTTON CREEK #1	5700				1/29	34	6.8	2/26	41	10.9	3/26	21	7.8							
NEW HOZOMEEN LAKE	2800				2/3	12	3.3	2/27	13	4.3	3/26	0	0	5/1	0	0	5/28	0	0	
OLALLIE MEADOWS	3630	Est	-	14.3	2/2	40	16.2	3/1	28	12.1	3/28	0	0	5/1	0	0				
OLNEY PASS	3250				2/3	0	0	2/26	0	0										
PARADISE PARK RS	5500				1/29	115	44.0				3/27	100	46.4							
PARK CREEK RIDGE	4600	Est	-	22.7	Est	-	46.3				3/25	74	34.1							
RAGGED RIDGE	3330	1/1	4	.5	1/30	10	2.7	3/2	0	0	4/1	0	0							

## Snow Course Data - WY 1992 (Depth &amp; SWE in inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			
		DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	
RAINY PASS	4780	Est	-	34.9	2/3	100	31.8	2/27	98	35.8	3/26	87	38.6	5/1	69	33.6	5/29	28	13.5	
ROCKY CREEK AM	2100	12/28	3	1.0	Est	18	4.7	2/27	21	9.0	3/25	0	0							
RUSTY CREEK	4000				1/29	16	3.5	2/26	16	4.5	3/26	0	0							
SF THUNDER CK AM	2200							2/25	0	0	3/25	0	0							
SATUS PASS	4030				2/5	0	0	3/5	0	0	3/30	0	0							
SAWMILL RIDGE	4700	12/31	32	9.3	2/3	40	14.7	3/2	42	16.8	3/28	22	9.0	4/28	2	.8	5/31	0	.0	
SCHREIBERS MDW AM	3400	12/28	36	14.0	Est	60	18.0	2/28	87	39.0	3/25	60	32.0							
STEMILT SLIDE	5000				1/30	27	8.0	3/2	27	8.0	3/27	16	7.2							
STEVENS PASS SAND SD	3700	12/30	42	13.6	1/30	62	20.5	2/28	59	22.0	3/31	33	14.7							
STICKNEY RIDGE	3640				2/3	43	20.8	2/26	39	19.4				5/1	0	0				
STRANGER MOUNTAIN	4230													Est	-	3.7				
SUMMIT G.S.	4600				1/30	30	7.2	2/27	25	7.3	3/26	3	.9							
SUMMIT G.S. #2	4600				1/30	25	6.3	2/27	25	6.6	3/26	9	2.6							
SUMMIT TRAIL	3840				1/22	20	4.8	2/27	10	3.3										
THUNDER BASIN	4200				2/3	47	15.0	2/26	51	17.8	3/26	40	16.2	5/1	24	11.2	5/28	0	.0	
TOGO	3370				1/30	18	5.5	2/27	20	6.8										
TUNNEL AVENUE	2450	12/29	8	2.2	1/29	17	5.8	2/26	13	5.0	3/30	0	0							
TWIN CAMP	4100	12/31	32	9.8	2/3	36	14.3	3/2	39	16.3	3/28	23	8.8	4/28	0	.0	5/31	0	.0	
TWIN LAKES	2700				1/22	22	4.6	2/27	15	4.9	3/27	0	0							
UPPER WHEELER	4400				1/31	22	5.0													
VAN EPPS PASS AM	5900				Est	96	28.8				3/31	81	34.3							

# Snow Course Data - WY 1992 (Depth & SWE in inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
		DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE	DATE	DEPTH	SWE
WATSON LAKES AM	4500	12/28	52	20.0	Est	70	21.0	2/25	85	39.0	3/25	76	3.8						
WHITE PASS E.S.	4500	12/21	21	6.3	Est	28	5.7	3/8	33	12.0									

## SNOTEL SWE's - WY 1992 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	DATE	OCT	NOV	DEC	JAN	MAR	APR	MAY	JUN	JUL	AUG	SEP	START DATE	MAX SWE	SNOWPACK MAX DATE	MELTOUT DATE		
			1st	15th	0	.3	1.2	2.6	5.7	8.2	10.5	6.4	.0	.0	.0	0	11/12	10.8	3/9
BLEWETT PASS	4270	1st	0	0	.9	3.4	8.2	13.9	17.9	15.6	8.4	.0	.0	.0	0	0	0	0	5/11
		15th	0	0	.1	7.2	10.0	14.8	17.8	14.5	0	.0	.0	0	0	0	0	0	5/22
BUMMING RIDGE	4600	1st	0	0	1.4	6.9	11.4	18.8	22.3	23.9	15.6	.0	.0	.0	0	0	0	0	3/7
		15th	0	0	3.2	11.1	13.9	19.7	22.7	22.9	6.6	.0	.0	0	0	0	0	0	4/1
BUNCHGRASS MDW	5000	1st	0	0	2.5	8.9	15.3	23.6	27.5	28.5	27.7	1.5	.0	.0	0	0	0	0	5/22
		15th	0	0	1.9	14.7	17.0	24.5	28.2	29.1	20.5	.7	.0	.0	0	0	0	0	6/17
CORRAL PASS	6000	1st	0	0	1.1	3.0	4.8	3.2	0	.0	.0	.0	.0	.0	0	0	0	0	4/24
		15th	0	0	4.2	7.7	.6	.0	.0	.0	.0	.0	.0	.0	0	0	0	0	6/17
COUGAR MOUNTAIN	3200	1st	0	0	0	0	0	0	0	0	0	0	.0	.0	0	0	0	0	2/27
		15th	0	0	0	0	0	0	0	0	0	.0	.0	.0	0	0	0	0	5/4
FISH LAKE	3371	1st	0	0	.8	5.8	12.6	18.4	21.0	14.8	2.2	.0	.0	.0	0	0	0	0	2/25
		15th	0	0	.2	10.9	14.9	18.4	19.3	11.6	.0	.0	.0	0	0	0	0	0	5/4
GREEN LAKE	6000	1st	0	0	1.5	4.5	8.5	11.4	14.4	16.0	11.6	.0	.0	.0	0	0	0	0	4/15
		15th	0	0	.3	6.6	9.0	12.2	15.9	15.9	16.5	1.9	.0	.0	0	0	0	0	5/18
GROUSE CAMP	5380	1st	0	0	1.2	4.6	9.3	13.8	17.9	13.2	.0	.0	.0	0	0	0	0	0	4/27
		15th	0	0	.8	8.3	10.3	14.5	16.8	9.2	.0	.0	.0	0	0	0	0	0	3/8
HARTS PASS	6500	1st	0	0	.9	12.6	22.6	34.1	40.2	39.9	32.6	1.6	.0	.0	0	0	0	0	6/15
		15th	0	0	4.4	21.3	25.4	35.8	41.4	37.6	25.6	.3	.0	.0	0	0	0	0	6/15
JUNE LAKE	3340	1st	0	0	2.6	2.2	3.7	4.2	1.9	.0	.0	.0	.0	0	0	0	0	0	3/7
		15th	0	0	.2	3.0	9.2	2.3	.0	.0	.0	.0	.0	0	0	0	0	0	5/1
LONE PINE	3800	1st	0	0	1.9	4.6	8.3	13.5	14.1	5.3	.0	.0	.0	0	0	0	0	0	2/22
		15th	0	0	.2	7.7	12.1	13.0	10.6	3.6	.0	.0	.0	0	0	0	0	0	5/1
LOST HORSE	5000	1st	0	0	1.5	3.6	6.1	8.7	11.6	7.8	.0	.0	.0	0	0	0	0	0	4/24
		15th	0	0	.4	5.3	7.1	8.9	11.1	5.0	.0	.0	.0	0	0	0	0	0	4/24
LYMAN LAKE	5900	1st	0	0	1.4	14.3	28.8	48.2	56.7	57.3	54.5	23.6	.0	.0	0	0	0	0	6/17
		15th	0	0	3.2	26.2	33.0	50.4	58.4	55.7	48.0	1.7	.0	.0	0	0	0	0	6/17
MINERS RIDGE	6200	1st	0	0	1.8	12.0	23.7	37.2	43.5	43.2	38.8	9.3	.0	.0	0	0	0	0	6/7
		15th	0	0	2.7	23.1	26.4	38.5	43.4	40.8	31.5	.0	.0	0	0	0	0	0	6/7

\* - Permanent snowpack commenced in prior Water Year.

# SNOTEL SWE's - WY 1992 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	START DATE	MAX SWE	MAX DATE	MELTOUT DATE
MORSE LAKE	5400	1st	0	1.7	9.9	20.4	38.9	44.4	40.4	31.9	0	0	0	0	0	45.3	3/8	5/31
MORSE LAKE	5400	15th	0	2.0	16.3	25.8	39.3	44.4	39.6	20.1	0	0	0	0	0	10/22	45.3	3/8
MOSES MTN	5300	1st	0	0	2.5	4.5	8.4	11.9	9.4	2.5	0	0	0	0	0	11/15	15.8	3/23
MOSES MTN	5300	15th	0	0	3.2	6.7	10.6	14.3	10.1	0	0	0	0	0	0	0	11/15	15.8
MOUNT CRAG	4050	1st	0	1.0	3.3	4.9	11.3	16.4	12.6	0	0	0	0	0	0	0	0	5/11
MOUNT CRAG	4050	15th	0	.4	4.2	7.8	13.3	15.4	9.8	0	0	0	0	0	0	0	0	5/11
OLALLIE MEADOWS	3700	1st	0	2.5	8.0	16.8	24.0	29.3	26.5	19.3	0	0	0	0	0	11/12	16.7	2/24
OLALLIE MEADOWS	3700	15th	0	.7	14.0	19.6	24.9	28.5	25.6	6.1	0	0	0	0	0	0	0	4/30
PARADISE	5120	1st	0	3.9	14.2	29.3	47.9	54.1	53.7	51.4	18.0	0	0	0	0	0	0	5/22
PARADISE	5120	15th	0	1.9	25.7	33.9	47.6	54.6	54.8	40.9	0	0	0	0	0	0	0	6/13
PARK CREEK RIDGE	4600	1st	0	1.1	13.4	23.9	41.3	47.9	41.9	26.6	0	0	0	0	0	0	0	4/18
PARK CREEK RIDGE	4600	15th	0	3.3	22.5	28.9	42.7	48.0	37.5	10.0	0	0	0	0	0	0	0	6/13
PIGTAIL PEAK	5900	1st	0	2.5	8.3	19.2	33.3	38.6	41.8	40.8	5.9	0	0	0	0	0	0	5/23
PIGTAIL PEAK	5900	15th	0	.7	16.2	22.4	33.5	40.5	42.4	33.9	0	0	0	0	0	0	0	6/4
POPE RIDGE	3540	1st	0	1.3	6.2	9.7	14.4	16.7	10.8	0	0	0	0	0	0	0	0	4/23
POPE RIDGE	3540	15th	0	2.1	9.0	11.4	14.4	15.0	5.8	0	0	0	0	0	0	0	0	6/4
POTATO HILL	4500	1st	0	3	3.6	8.5	14.5	15.8	7.2	0	0	0	0	0	0	0	0	4/27
POTATO HILL	4500	15th	0	.1	7.3	10.9	14.8	12.6	4.9	0	0	0	0	0	0	0	0	4/27
QUARTZ PEAK	4700	1st	0	.8	3.8	5.8	10.8	13.3	10.2	0	0	0	0	0	0	0	0	4/28
QUARTZ PEAK	4700	15th	0	.6	4.9	8.4	11.0	12.3	8.2	0	0	0	0	0	0	0	0	4/28
RAINY PASS	4780	1st	0	.9	10.9	21.3	34.8	39.5	40.5	35.0	5.5	0	0	0	0	0	0	4/30
RAINY PASS	4780	15th	0	3.5	19.7	24.5	35.8	40.8	38.9	26.7	1	0	0	0	0	0	0	4/30
SALMON MEADOWS	4500	1st	0	.4	2.6	4.1	6.5	9.4	5.1	0	0	0	0	0	0	0	0	6/16
SALMON MEADOWS	4500	15th	0	.6	3.5	5.0	7.3	8.7	.6	0	0	0	0	0	0	0	0	6/16
SASSE RIDGE	4200	1st	0	1.3	6.3	14.5	21.8	26.0	23.6	11.7	0	0	0	0	0	0	0	3/9
SASSE RIDGE	4200	15th	0	1.4	12.4	17.2	22.1	26.4	21.7	0	0	0	0	0	0	0	0	5/13
SHEEP CANYON	4030	1st	0	2.8	4.5	9.9	13.5	9.4	.8	.8	0	0	0	0	0	0	0	3/7
SHEEP CANYON	4030	15th	0	.7	8.4	17.4	10.3	4.3	.7	0	0	0	0	0	0	0	0	5/8

\* - Permanent snowpack commenced in prior Water Year.

## SNOTEL SWE'S - WY 1992 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SNOWPACK MAX SWE			SNOWPACK MAX DATE	MELTOUT DATE
															START DATE	MAX SWE	MAX DATE		
SPENCER MEADOW	3400	1st 15th	.0 .6	2.5 4.4	2.6 8.8	5.0 8.8	10.4 7.2	8.2 3.6	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	11/12 .0	14.3 .0	2/2 .0	3/26 1/26
SPIRIT LAKE	3120	1st 15th	.0 .0	1.8 4.0	.0 2.1	.2 1.5	.2 1.5	.4 3	.0 .4	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	12/8 .0	2.4 .0	12/18 .0	5/12
STAMPEDE PASS	3860	1st 15th	.0 .0	1.9 4.4	7.6 14.7	17.1 21.7	25.9 27.5	30.0 29.6	26.1 24.1	14.4 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	10/21 .0	32.2 .0	2/25 .0	5/12
STEVENS PASS	4070	1st 15th	.0 .0	1.8 1.5	10.1 18.7	20.5 21.1	28.4 29.3	32.7 31.0	22.8 17.2	4.3 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	10/22 .0	33.4 .0	2/24 .0	5/4
SURPRISE LAKES	4250	1st 15th	.0 .0	3.5 2.2	8.1 13.8	16.0 19.7	23.7 25.0	27.4 23.9	18.6 16.4	8.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	10/21 .0	30.2 .0	2/22 .0	5/6
THUNDER BASIN	4200	1st 15th	.0 .0	.6 6	7.1 14.8	15.1 17.0	20.8 21.0	23.3 23.7	20.6 18.4	13.0 4.2	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	11/14 .0	24.2 .0	3/12 .0	5/19
TOUCHET #2	5530	1st 15th	.0 .0	2.1 1.5	8.5 12.9	14.2 16.3	19.9 19.3	21.9 20.0	16.9 15.6	4.2 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	10/24 .0	22.5 .0	2/25 .0	5/5
TROUGH	5300	1st 15th	.0 .0	.8 2	2.0 2.7	3.4 4.0	5.4 5.9	7.4 7.4	4.3 1.3	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	11/14 .0	7.8 .0	3/9 .0	4/18
UPPER WHEELER	4400	1st 15th	.0 .0	.7 2	2.3 3.7	4.6 5.9	7.4 6.8	9.8 11.1	10.1 8.0	.1 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	11/16 .0	11.3 .0	3/19 .0	5/9
WHITE PASS E.S.	4500	1st 15th	.0 .0	1.2 .3	4.0 6.9	8.2 9.8	11.8 12.2	14.4 13.8	11.7 10.6	4.5 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	11/13 .0	15.1 .0	2/24 .0	5/6

\* - Permanent snowpack commenced in prior Water Year.

# Monthly Precipitation - WY 1992 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
BLEWETT PASS	4270	1.9	4.8	4.6	5.2	3.0	1.6	2.0	.4	2.0	2.0	.0	1.7	29.4
BUMPING RIDGE	4600	2.1	11.6	7.0	12.1	4.4	1.7	6.5	.9	2.6	1.0	.5	3.6	54.0
BUNCHGRASS MDW	5000	1.4	5.8	4.7	7.7	3.7	1.6	4.0	1.0	4.9	3.9	.6	1.9	41.2
CORRAL PASS	6000	3.2	11.6	6.8	8.0	4.4	1.8	5.8	1.1	2.8	1.8	1.6	3.5	52.7
COUGAR MOUNTAIN	3200	4.3	18.9	13.8	13.9	5.9	1.8	10.8	2.5	3.8	5.5	2.8	10.4	94.4
FISH LAKE	3371	3.4	13.1	10.8	12.1	4.4	2.2	4.8	1.3	1.3	2.1	1.6	6.1	63.2
GREEN LAKE	6000	1.6	5.7	3.6	3.9	4.2	2.0	2.9	.4	1.2	1.6	.2	1.7	29.0
GROUSE CAMP	5380	.7	5.0	3.1	3.8	3.0	1.6	1.4	.4	2.4	1.4	.3	.7	23.8
HARTS PASS	6500	.8	9.4	6.3	7.9	4.2	1.1	1.6	1.2	4.8	3.4	.8	1.7	43.2
JUNE LAKE	3340	6.2	27.0	16.7	27.1	15.5	1.5	16.6	4.3	2.2	1.4	1.7	10.7	130.9
LONE PINE	3800	5.0	16.1	8.5	15.8	8.6	1.3	11.6	3.6	1.9	2.2	1.4	6.8	82.8
LOST HORSE	5000	1.7	4.9	2.9	4.1	4.1	1.9	2.4	1	1.0	2.3	.1	1.8	27.3
LYMAN LAKE	5900	2.1	11.9	8.1	12.3	8.1	1.2	4.2	1.9	3.4	3.1	1.6	5.0	62.9
MINERS RIDGE	6200	2.1	10.5	11.3	13.8	8.9	1.5	3.9	2.2	4.8	3.3	2.4	5.7	70.4
MORSE LAKE	5400	3.6	13.4	7.4	15.5	7.5	2.5	7.6	1.0	1.9	1.8	1.2	4.0	67.4
MOSES MTN	5300	.7	8.4	2.8	3.4	5.4	1.1	4.9	2.1	3.1	2.0	1.2	.7	35.8
MOUNT CRAG	4050	2.2	9.0	6.0	18.1	6.5	1.6	8.0	2.3	2.2	3.7	.8	1.9	62.3
OLALLIE MEADOWS	3700	5.0	24.0	18.9	20.8	9.2	1.7	9.5	3.2	3.7	2.6	2.5	113	112.4
PARADISE	5120	5.6	24.5	13.8	16.8	7.3	2.5	10.1	2.0	2.0	3.5	1.1	8.5	97.7
PARK CREEK RIDGE	4600	2.2	15.7	8.6	15.1	6.4	.8	2.7	1.0	3.0	1.4	.9	3.4	61.2
PIGTAIL PEAK	5900	3.5	14.4	8.1	9.4	6.2	1.6	8.0	.9	1.2	1.7	.6	4.5	60.1
POPE RIDGE	3540	2.0	6.5	4.2	6.0	2.9	.8	1.3	.4	2.0	.4	.1	.7	27.3
POTATO HILL	4500	1.2	11.9	6.0	8.5	5.8	1.6	6.7	2.3	2.3	1.8	1.2	4.0	53.3
QUARTZ PEAK	4700	1.0	5.4	3.4	6.7	3.6	.8	2.9	.4	3.8	2.6	.4	2.0	33.0
RAINY PASS	4780	1.7	13.4	4.0	10.4	4.5	.7	3.0	1.0	4.8	2.4	1.8	3.1	50.8
SALMON MEADOWS	4500	.8	2.7	1.4	1.8	2.7	.6	.9	.3	5.6	4.1	.4	.6	21.9
SASSE RIDGE	4200	2.0	11.3	8.7	10.2	4.2	1.3	3.8	.3	2.5	1.0	.1	3.9	49.3
SHEEP CANYON	4030	5.2	20.3	14.2	19.5	11.3	3.1	16.1	2.3	2.6	1.2	1.3	8.7	105.8
SPENCER MEADOW	3400	4.8	17.4	9.3	17.4	9.6	2.4	10.0	2.5	3.7	.6	1.7	5.2	84.6
SPRIT LAKE	3120	5.2	17.4	11.2	13.6	8.0	2.3	10.6	2.8	2.0	2.5	1.5	9.0	86.1
STAMPEDE PASS	3860	5.2	17.7	15.7	12.9	4.6	.9	6.6	2.2	4.2	1.2	1.6	7.2	80.0
STEVENS PASS	4070	6.9	17.6	14.8	16.2	5.7	1.4	4.7	2.0	4.0	1.8	1.1	7.5	83.7
SURPRISE LAKES	4250	3.9	17.1	10.6	12.8	9.2	1.9	10.3	1.8	1.8	1.7	1.1	6.0	78.2
THUNDER BASIN	4200	2.7	15.5	11.1	11.0	5.2	1.4	5.6	.8	4.0	1.9	1.7	4.8	65.7
TOUCHET #2	5530	2.3	14.7	5.7	5.2	3.5	.1	6.3	.5	1.8	1.3	2.1	4.6	48.1

## Monthly Precipitation - WY 1992 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
TROUGH	5300	1.6	3.2	1.6	2.6	2.4	.7	1.6	.1	2.5	1.4	0	.4	18.1
UPPER WHEELER	4400	1.5	3.3	1.6	3.9	2.6	.8	1.6	.1	1.9	1.5	.1	.2	19.1
WHITE PASS E.S.	4500	2.1	8.4	5.3	6.0	3.2	1.3	3.1	.3	.5	.6	.0	2.3	33.1

# Snow Course SWE Averages: 1961-1990 (inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY 1st 15th	FEBRUARY 1st 15th	MARCH 1st 15th	APRIL 1st 15th	MAY 1st 15th	JUNE 1st 15th
AHTANUM R.S.	3100	3.5	5.8	6.8	5.3		
ALPINE MEADOWS	3500			33.8	43.7		
BAIRD #2	3220			12.6	11.6		
BEAVER CREEK TRAIL	2200		9.7	25.1	29.7		
BEAVER PASS	3680		19.7			4.1	28.1
BIG BOULDER CREEK	3200	7.8	12.8	18.0	17.8	7.7	
BLEWETT PASS #2	4270	6.4	11.6	14.3	15.1	7.5	
BOYER MOUNTAIN	5250			21.6	25.7	23.6	
BRIEF	1600		6.0	6.9	2.5		
BROWN TOP AM	6000		41.2	51.9	59.6	61.7	
BUMPING LAKE	3450	6.0	9.9	11.6	13.3	14.0	14.2
BUMPING LAKE (NEW)	3400	7.5	12.2	14.2	16.9	17.6	18.3
BUNCHGRASS MEADOWS	5000	14.8		21.8	26.6	29.5	26.8
BUTTE CREEK	4070	4.2		6.4	8.2	9.0	5.7
CARROL PASS	3650	11.0		17.5	23.8	31.3	26.9
CAYUSE PASS	5300	32.4		52.9	65.3	82.4	88.1
CHEWALAH	4930			10.2	13.5	16.1	
CHEWALAH #2	4930						
CHIWAUKUM G.S.	2500	4.8		8.7	10.7	8.9	
CITY CABIN	2390				12.3	13.6	1.0
CLOUDY PASS AM	6500				32.9	42.1	
COLOCKUM PASS	5370				14.5	16.5	
CORRAL PASS	6000				33.9	40.1	
COX VALLEY	4500				32.4	39.5	
DEER PARK	5200				17.3	20.9	
DEVILS PARK	5900						45.0
DOCK BUTTE AM	3800	25.7		30.3	36.9	42.9	31.8
EASY PASS AM	5200	27.1		41.1	56.1	65.4	52.5
FISH LAKE	3370	10.7		45.6	64.5	82.9	73.3
FREEZEOUT CK. TRAIL	3500				21.1	29.3	22.4
					8.8	11.1	7.0
GOAT CREEK	3600	3.5					
GRANITE CREEK	3500				5.2	6.4	4.3
GRASS MOUNTAIN #2	2900	4.8			13.0	15.8	10.7
GREEN LAKE	6000				10.3	13.9	15.9
GROUSE CAMP	5380				22.6	29.1	2.3
					12.2	15.5	33.9
							17.1

\* - Average not established.

C-Conditional Average (based on less than 25 years of data)

Snow Course SWE Averages: 1961-1990 (inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY 1st	JANUARY 15th	FEBRUARY 1st	FEBRUARY 15th	MARCH 1st	MARCH 15th	APRIL 1st	APRIL 15th	MAY 1st	MAY 15th	JUNE 1st	JUNE 15th
HARTS PASS	6500			29.6		36.2		42.6		45.1			
HURRICANE	4500			13.7		17.4		22.1		21.9			
INDIAN ROCK	5340			18.2									
JASPER PASS AM	5400	37.9		58.8		75.0		86.0		89.3		81.1	
KELLER RIDGE	3700												
KROMONA MINE	2400			18.1		29.1		33.8		23.4			
LAKE CLE ELUM	2200	3.9	6.7	7.0	9.0	7.7	8.5	4.3	1.9				
LESTER CREEK	3100	8.0		14.8		17.7		23.3					
LITTLE MDWS AM	5280			30.2		37.2		44.0		15.0			
LYMAN LAKE	5900	23.5		40.5		49.8		58.7					
LYNN LAKE	4000	7.6		14.8		16.0		22.0		10.7			
MARTEN LAKE AM	3600	30.1		48.2		63.6		73.4		75.8			
MEADOWS CABIN	1900			5.4		6.2		4.8		1.1			
MERRITT	2140	7.1		12.4		14.4		12.8		3.6			
MIDDLE SULTAN	3010			9.4		16.9		20.2		13.0			
MISSION (OMAK)	1150					3.0							
MISSION RIDGE	5000					11.5		14.0		16.5			
MOUNT TOLMAN	2000					3.1		3.5					
MOSES MEADOWS (3)	3800					1.7		2.4					
MOSES MOUNTAIN (1)	4800	5.9				9.4		14.4		13.5			
MOSES PEAK (2)	6650	3.7		6.5		10.3		5.7		5.5			
MT. BLUM AM	5800	24.4		41.3		55.9		63.1		69.1			
MT. GARDNER	3300												
MUTTON CREEK #1	5700												
NEW HOZOMEEN LAKE	2800												
OLALLIE MEADOWS	3630	18.2		29.3		38.7		44.8		43.5			
OLNEY PASS	3250			12.0		21.5		25.6		16.6			
PARADISE PARK RS	5500	28.3		47.0		56.9		68.5					
PARK CREEK RIDGE	4600	17.5		33.2		42.5		43.1					
POPE RIDGE	3540			13.6		17.1		16.8					
RAGGED RIDGE	3330	3.8		6.2		7.4		3.5					
RAINY PASS	4780	25.3		27.7		33.4		39.3		40.6			
ROCKY CREEK AM	2100		11.7		20.0		25.2		27.8		19.1		
RUSTY CREEK	4000	3.8		5.0		6.2		5.9		.5			
SFT THUNDER CK AM	2200	4.5		7.9		4.9		7.9		1.1			

\* - Average not established

C-Conditional Average (based on less than 25 years of data)

## Snow Course SWE Averages: 1961-1990 (inches)

SNOW COURSE NAME	ELEV. (ft.)	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
		1st	15th	1st	15th	1st	15th	1st	15th	1st	15th	1st	15th
SALMON MEADOWS	4500	6.8	8.9	8.9	9.4	9.4	10.0	10.6	11.2	11.6	12.2	12.8	13.4
SATUS PASS	4030	7.7	8.2	29.7	36.3	7.7	8.2	10.0	10.6	10.8	11.2	11.6	12.0
SAWMILL RIDGE	4700	23.9	47.9	47.9	58.8	28.2	36.3	38.0	41.4	41.4	44.0	46.0	48.0
SCHREIBERS MDW AM	3400	35.1	47.9	12.7	12.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
STEMILT SLIDE	5000	10.3	31.1	31.1	33.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
STEVENS PASS SAND SD	3700	23.9	59.8	59.8	68.2	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
STICKNEY RIDGE	3640	49.9	10.8	10.8	12.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
STRANGER MOUNTAIN	4230	8.1	7.1	7.1	8.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
SUMMIT G.S.	4600	5.6	7.1	7.1	8.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
SUMMIT G.S. #2	4600	5.9	7.8	7.8	8.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
THUNDER BASIN	4200	13.5	18.5	18.5	21.7	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
TOGO	3370	7.8	9.3	9.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
TUNNEL AVENUE	2450	15.4	19.3	19.2	23.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
TWIN CAMP	4100	16.9	21.8	21.8	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
TWIN LAKES	2700	6.7	8.7	8.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
UPPER WHEELER	4400	8.0	9.4	9.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
VAN EPFS PASS AM	5900	38.7	53.3	64.9	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
WATSON LAKES AM	4500	24.2	20.7	23.7	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
WHITE PASS E.S.	4500	8.8	3.9	3.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
AIRSTRIIP (DISC)	1800	13.0	19.4	25.0	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1

\* - Average not established.

C-Conditional Average (based on less than 25 years of data)

## SNOTEL SWE Averages: 1961 - 1990 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BLEWETT PASS	4270	1st 15th	.0 .0	.5 1.6	3.9 6.2	8.3 10.3	13.6 15.3	17.0 17.4	17.8 13.2	4.9 .5	.0 .0	.0 .0	.0 .0	.0 .0
BUMPING RIDGE	4600	1st 15th	.0 .0	.2 1.9	4.5 6.9	9.6 11.1	13.9 16.5	18.4 19.9	21.2 20.7	18.9 14.6	6.3 1.1	.0 .0	.0 .0	.0 .0
BUNCHGRASS MDW	5000	1st 15th	.0 .0	1.2 3.4	5.9 8.7	11.5 15.1	18.8 21.6	22.7 26.3	28.0 29.1	28.0 24.1	16.2 .0	.0 .0	.0 .0	.0 .0
CORRAL PASS	6000	1st 15th	.0 .1	.9 3.3	7.8 11.0	13.5 17.4	21.3 24.9	27.6 30.4	32.6 32.7	29.5 27.2	19.6 9.8	.0 .0	.0 .0	.0 .0
COUGAR MOUNTAIN	3200	1st 15th	.0 .0	.3 1.0	3.7 5.6	8.3 11.0	15.0 16.7	18.6 18.4	18.8 15.5	9.3 4.2	.0 .0	.0 .0	.0 .0	.0 .0
FISH LAKE	3371	1st 15th	.0 .0	.2 2.4	6.2 9.6	12.4 17.0	22.0 25.6	28.4 30.2	31.9 29.7	25.0 17.7	5.0 .4	.0 .0	.0 .0	.0 .0
GREEN LAKE	6000	1st 15th	.0 .1	.6 2.2	4.8 7.2	9.0 11.6	14.1 16.0	17.5 19.2	20.7 21.1	19.7 15.6	3.8 .3	.0 .0	.0 .0	.0 .0
GROUSE CAMP	5380	1st 15th	.0 .0	.3 2.0	4.6 7.1	8.9 11.2	13.8 15.5	17.1 18.6	19.8 15.4	9.2 4.2	.0 .0	.0 .0	.0 .0	.0 .0
HARTS PASS	6500	1st 15th	0 4	2.0 5.6	10.6 14.9	17.9 22.1	32.1 35.4	39.7 43.6	47.4 48.6	49.7 37.5	25.3 10.0	1.3 .0	.0 .0	.0 .0
JUNE LAKE	3340	1st 15th	0 .1	.7 2.8	7.7 8.8	11.5 20.3	28.1 31.9	33.6 35.2	36.3 28.5	19.6 8.0	.0 .0	.0 .0	.0 .0	.0 .0
LONE PINE	3800	1st 15th	0 .1	.4 2.2	6.9 8.2	12.0 16.2	20.8 25.2	28.1 30.0	32.1 32.3	26.4 26.1	9.4 1.5	.0 .0	.0 .0	.0 .0
LOST HORSE *	5000	1st 15th	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
LYMAN LAKE	5900	1st 15th	.0 .7	2.5 8.2	14.7 21.0	25.4 31.3	39.0 44.1	48.4 52.5	56.9 59.6	58.7 54.4	43.3 28.3	7.8 2.3	.0 .0	.0 .0
MINERS RIDGE *	6200	1st 15th	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —

\* - Average not established. C-Conditional Average (based on less than 25 years of data)

# SNOTEL SWE Averages: 1961 - 1990 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MORSE LAKE	5400	1st 15th	.0 .0	.6 4.2	10.5 15.2	19.1 24.5	29.6 34.6	38.5 43.9	47.2 46.9	44.4 38.4	21.4 5.0	.0 .0	.0 .0	.0 .0
MOUNT CRAG *	4050	1st 15th	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
OLALLIE MEADOWS	3700	1st 15th	.0 .3	1.3 4.7	16.3 19.5	20.3 31.7	34.3 47.7	44.6 53.8	53.5 67.9	51.0 61.3	30.0 34.9	1.5 4.9	.0 0	.0 0
PARADISE	5120	1st 15th	.0 .5	1.7 6.9	14.8 19.5	23.6 31.7	38.5 47.7	47.9 53.8	62.1 67.9	61.8 61.3	48.1 34.9	17.5 4.9	.0 0	.0 0
PARK CREEK RIDGE	4600	1st 15th	.0 .1	1.4 3.5	8.7 14.2	18.4 25.0	29.6 35.0	40.6 41.4	41.6 43.1	33.6 25.1	5.2 1.2	.0 0	.0 0	.0 0
PIGTAIL PEAK	5900	1st 15th	.0 .3	1.4 5.4	11.4 16.1	20.1 24.9	30.4 35.6	41.0 44.9	49.3 51.0	47.7 47.2	37.5 24.8	7.9 9.0	.0 0	.0 0
POPE RIDGE	3540	1st 15th	.0 .0	.4 2.0	4.7 7.3	9.1 11.1	13.9 15.4	16.7 17.1	15.7 10.9	1.6 0	0 0	.0 0	.0 0	.0 0
POTATO HILL	4500	1st 15th	.0 .2	.4 2.1	5.6 7.9	10.5 13.4	16.4 19.0	21.9 23.2	25.3 21.4	17.0 10.6	1.1 0	.0 0	.0 0	.0 0
QUARTZ PEAK	4700	1st 15th	.0 .0	.0 1.8	3.7 5.9	8.5 11.2	14.0 16.4	18.6 20.4	21.9 21.9	18.6 12.9	0 0	.0 0	.0 0	.0 0
RAINY PASS	4780	1st 15th	.0 .3	1.4 4.2	8.4 12.6	15.4 20.1	28.5 29.9	36.0 39.7	43.3 43.8	44.2 32.5	20.4 8.0	.0 0	.0 0	.0 0
SALEMON MEADOWS	4500	1st 15th	.0 .0	.5 1.1	2.7 3.8	3.9 5.2	5.9 7.1	8.3 9.3	9.4 5.7	1.1 .5	0 0	.0 0	.0 0	.0 0
SASSE RIDGE	4200	1st 15th	.0 .3	.8 2.9	7.2 9.9	12.4 16.6	21.6 24.5	27.4 29.6	32.1 29.6	24.1 14.4	1.3 0	.0 0	.0 0	.0 0
SHEEP CANYON	4030	1st 15th	.0 .1	.6 3.1	8.7 10.1	15.2 15.5	25.2 26.9	30.1 38.7	39.8 41.9	34.7 24.6	11.6 2.3	.0 0	.0 0	.0 0
SPENCER MEADOW	3400	1st 15th	.0 .0	.0 .9	4.5 6.0	9.4 14.0	20.0 24.8	27.2 28.1	29.6 25.8	17.2 0	.0 0	.0 0	.0 0	.0 0

\* - Average not established.

C-Conditional Average (based on less than 25 years of data)

## SNOW SWE Averages: 1961 - 1990 (inches)

SNOW SITE NAME	ELEV. (ft.)	DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SPIRIT LAKE	3120	1st	.0	.0	1.3	1.8	6.4	6.6	3.6	.3	.0	.0	.0	.0
		15th	.0	.9	2.7	4.6	7.3	4.9	.3	.0	.0	.0	.0	.0
STAMPEDE PASS	3860	1st	.0	.7	9.5	16.7	28.8	38.2	44.4	39.1	15.0	.0	.0	.0
		15th	.2	3.6	13.6	23.2	34.6	40.3	43.6	31.2	3.6	.0	.0	.0
STEVENS PASS	4070	1st	.0	.8	8.0	15.3	27.3	34.7	42.3	32.1	5.7	.0	.0	.0
		15th	.1	3.1	12.2	20.9	31.4	40.0	39.1	21.8	1.7	.0	.0	.0
SURPRISE LAKES	4250	1st	.0	.8	10.6	20.2	30.4	37.5	44.2	36.1	14.5	.0	.0	.0
		15th	.1	3.8	14.0	24.3	34.5	39.8	42.6	31.6	.9	.0	.0	.0
THUNDER BASIN *	4200	1st	—	—	—	—	—	—	—	—	—	—	—	—
		15th	—	—	—	—	—	—	—	—	—	—	—	—
TOUCHET #2	5530	1st	.0	.0	5.7	12.9	20.8	27.8	31.9	27.3	.0	.0	.0	.0
		15th	.0	2.9	8.9	16.7	24.6	30.3	31.0	19.2	.0	.0	.0	.0
ROUGH	5300	1st	.0	.2	2.6	4.9	6.4	9.0	9.7	2.5	.0	.0	.0	.0
		15th	.1	1.4	3.5	5.4	8.4	9.8	7.4	1.3	.0	.0	.0	.0
UPPER WHEELER	4400	1st	.0	.2	3.0	5.9	9.3	12.1	13.6	4.8	.0	.0	.0	.0
		15th	.0	1.7	3.9	7.2	10.8	13.1	11.7	1.0	.0	.0	.0	.0
WHITE PASS E.S.	4500	1st	.0	.7	4.9	9.8	15.5	20.7	22.9	18.7	4.6	.9	.0	.0
		15th	.1	3.0	7.2	12.4	18.6	21.6	22.5	14.0	1.1	.0	.0	.0

\* - Average not established.

C-Conditional Average (based on less than 25 years of data)

# Monthly Precipitation Averages: 1961 - 1990 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
BLEWETT PASS	4270	2.2	5.5	5.4	7.2	4.5	2.9	2.0	1.2	1.5	.4	.4	1.5	34.7
BUMPING RIDGE	4600	3.6	9.4	8.1	7.3	7.1	5.7	3.9	2.9	.9	.8	2.4	2.4	54.7
BUNCHGRASS MDW	5000	3.6	6.6	7.4	8.0	5.8	5.5	4.4	4.3	3.7	1.4	1.6	2.8	55.0
CORRAL PASS	6000	3.6	9.8	7.5	9.8	6.7	6.5	5.0	4.2	2.5	1.1	1.2	2.3	60.2
COUGAR MOUNTAIN	3200	7.8	17.3	11.4	13.5	10.1	10.2	7.3	6.3	4.2	2.7	2.3	4.9	98.0
FISH LAKE	3371	5.1	9.9	8.1	10.6	8.3	6.0	2.8	2.6	1.5	1.7	1.1	2.3	60.0
GREEN LAKE	6000	2.4	6.4	5.2	6.2	4.4	4.5	2.5	1.7	1.3	.8	.6	1.1	37.1
GROUSE CAMP	5380	1.7	5.7	4.6	5.2	4.1	3.9	1.9	1.3	1.6	.6	.8	1.1	32.5
HARTS PASS	6500	4.0	9.3	6.4	8.0	5.6	6.1	4.0	3.1	1.9	1.4	1.2	2.5	53.5
JUNE LAKE	3340	10.2	27.2	18.2	26.0	15.7	21.2	11.0	9.3	4.9	2.4	2.1	4.5	152.7
LONE PINE	3800	7.3	13.6	11.5	18.2	13.5	10.6	6.4	5.0	3.0	.8	1.3	2.6	93.8
LOST HORSE *	5000	—	—	—	—	—	—	—	—	—	—	—	—	—
LYMAN LAKE	5900	6.8	12.4	10.4	13.3	8.5	8.0	6.2	3.5	2.5	2.0	1.6	3.2	78.4
MINERS RIDGE *	6200	—	—	—	—	—	—	—	—	—	—	—	—	—
MORSE LAKE	5400	3.9	14.8	9.1	11.7	8.6	10.2	6.0	4.5	2.3	1.0	1.0	1.8	74.9
MOUNT CRAG *	4050	—	—	—	—	—	—	—	—	—	—	—	—	—
OLALLIE MEADOWS	3700	9.5	18.7	14.8	19.0	13.8	12.7	10.1	6.5	4.2	2.8	2.0	4.7	118.8
PARADISE	5120	8.4	19.6	13.9	16.0	12.3	11.4	10.4	7.2	4.0	1.6	1.2	4.5	110.5
PARK CREEK RIDGE	4600	4.6	10.7	11.1	10.7	7.9	5.9	4.0	2.5	1.8	1.3	1.2	2.2	63.9
PIGTAIL PEAK	5900	5.0	12.9	9.2	11.2	8.2	8.8	6.7	4.8	2.9	1.4	1.1	2.3	74.5
POPE RIDGE	3540	2.0	6.3	5.0	5.7	4.0	4.1	2.2	1.9	2.1	.9	1.0	1.1	36.3
POTATO HILL	4500	4.0	10.7	8.2	9.5	6.7	7.1	4.7	4.5	2.5	1.5	.7	2.3	62.4
QUARTZ PEAK *	4700	—	—	—	—	—	—	—	—	—	—	—	—	—
RAINY PASS	4780	4.4	8.6	7.2	7.9	7.5	5.7	4.0	3.0	2.1	1.7	1.1	2.8	56.0
SALMON MEADOWS	4500	1.8	3.3	2.2	1.8	1.8	2.4	2.0	2.4	2.7	1.3	1.2	.9	23.8
SASSE RIDGE	4200	4.4	9.9	6.9	9.6	6.4	5.9	4.1	2.1	1.1	.6	.6	1.8	53.4
SHEEP CANYON	4030	9.1	21.7	12.1	17.3	12.6	14.1	7.9	7.7	4.6	1.8	1.7	4.4	115.0
SPENCER MEADOW	3400	7.0	15.3	11.9	15.6	12.4	11.3	5.8	4.7	2.7	1.6	1.4	3.1	92.8
SPRIT LAKE	3120	6.7	13.0	9.9	17.1	9.3	10.8	5.9	5.5	2.5	.7	1.4	2.3	85.1
STAMPEDE PASS	3860	6.7	14.2	10.9	13.3	10.4	9.2	6.7	5.4	3.0	2.0	1.8	3.7	87.3
STEVENS PASS	4070	7.0	15.0	10.4	12.1	9.1	7.1	5.7	4.5	2.8	2.0	1.3	3.6	80.6
SURPRISE LAKES	4250	5.9	17.1	11.2	13.1	10.4	10.5	8.1	5.5	3.9	1.9	1.4	3.2	92.2
THUNDER BASIN *	4200	—	—	—	—	—	—	—	—	—	—	—	—	—
TOUCHET #2	5530	4.0	6.5	7.4	7.9	5.7	5.4	4.5	4.0	1.7	2.0	3.1	56.6	—
TROUGH	5300	1.5	4.6	3.7	3.5	3.3	2.3	1.5	1.4	1.3	.8	.9	1.3	26.1

\* - Average not established. C-Conditional Average (based on less than 25 years of data)

## Monthly Precipitation Averages: 1961 - 1990 (inches)

SNOTEL SITE NAME	ELEV. (ft.)	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UPPER WHEELER WHITE PASS E.S.	4400 4500	1.5 4.8	5.2 6.7	3.6 5.5	3.5 7.3	2.7 6.1	2.5 3.0	2.1 2.5	1.4 1.6	2.2 1.9	.6 .2	.4 .6	1.6 1.5	27.3 41.7

\* - Average not established.

C-Conditional Average (based on less than 25 years of data)

## Glossary:

**a (Accumulated)**

Data value summed over several previous measurement periods.

**AM (Aerial Marker)**

A vertical member with equally spaced crossarms. The depth of snow at these remote sites is determined by observation from low-flying aircraft. Water content is calculated using measurements from nearby snow courses.

**Average**

The mean values of snow water equivalent and monthly/yearly precipitation based on the 30 year period 1961-1990.

**Basin**

The major drainage area in which a snow course is located.

**Data**

Refers to snow water equivalent or precipitation amounts.

**Disc.**

Discontinued. Manual measurement discontinued. Estimates to be provided for a minimum of 5 years following discontinuance for correlation purposes.

**e, est**

Estimate. Data value developed from an adjacent snow course or SNOTEL site in lieu of an actual physical measurement.

**Elevation**

The vertical reference of a site location above mean sea level, measured in feet.

**Meltout Date**

Date permanent seasonal snowpack was completely melted.

**Months**

Month names that head data columns in this report indicate:

1. Snow depth and snow water equivalent measurements that are usually taken near the end or middle of the month, and reported as first of month or fifteenth of month readings. This explains why, for example, a February 27 and a March 15 reading are shown under the March column.
2. Precipitation increment or catch measured during the month indicated.

**Precipitation**

The liquid equivalent (inches) of rainfall, snow, sleet, or hail, collected by precipitation storage gauges.

**SNOTEL**

Abbreviation for SNOW TElemetry; a west-wide system for obtaining snow water equivalent, precipitation, air temperature, and other hydrologic measurements from remote data sites via radio transmission.

**Snow Course**

A permanently marked data site where manual snow measurements are collected.

## Glossary:

**Site Number**

An indexing/locating number based on alpha and numeric grid divisions. Refer to the Data Site Maps included with this report.

**Snow Depth**

An average of the vertical measurements in inches of snowpack at a data site.

**Start Date**

Date permanent seasonal snowpack first began.

**SWE**

Snow Water Equivalent. The amount of water in the snowpack expressed in inches.

**WY**

Water Year. The twelve month period beginning October 1st in one year and September 30th of the following year. The water year is the calendar year in which it ends.

## The Following Agencies and Organizations Cooperate With the Soil Conservation Service in Snow Survey Work:

Canada		Local
	Ministry of the Environment Investigations Branch, Victoria, British Columbia	
State	Washington State Department of Ecology Washington State Department of Natural Resources	
	Department of the Army Corps of Engineers U.S. Department of Agriculture Forest Service	
Federal	U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bonneville Power Administration Bureau of Reclamation Geological Survey National Park Service Bureau of Indian Affairs	Private
		City of Tacoma City of Seattle Chelan County P.U.D. Pacific Power and Light Company Puget Sound Power and Light Company Washington Water Power Company Snohomish County P.U.D. Colville Confederated Tribes Spokane County Yakima Indian Nation
		Okanogan Irrigation District Wenatchee Heights Irrigation District Newman Lake Homeowners Association

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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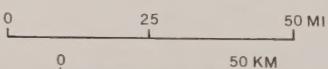
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C A N A D A



## SNOW SURVEY DATA SITES WASHINGTON

1992



BASE COMPILED FROM USGS NATIONAL ATLAS  
1:1,000,000 AND WASHINGTON HIGHWAY MAPS,  
ALBERS EQUAL-AREA PROJECTION.



**INDEX TO WASHINGTON SNOW DATA SITES**

SITE NAME	SITE NO.	SITE CONFIGURATION					BASIN	SITE NAME	SITE NO.	ELEV.	LAT.	LONG.	SEC.	TWP. RANGE	SITE CONFIGURATION	BASIN			
		ELEV.	LAT.	LONG.	SEC.	TWP. RANGE													
AHTANUM R.S.	21C11	3100	46° 31'	121° 01'	24	12N	14E	SC	YAKIMA RIVER	OLNEY PASS	21B54	3200	47° 56'	121° 38'	3	28N	9E	SC	NORTH PUGET
ALPINE MEADOWS	21B48	3500	47° 41'	121° 42'	21	27N	9E	SC	NORTH PUGET	PARADISE PARK	21C35S	5500	46° 50'	121° 43'	13	15N	8E	S.P.T	COWLITZ AND LEWIS
BAIRD #2	17A07	3220	48° 37'	117° 34'	19	36N	42E	SC	COLVILLE AND KETTLE	PARK CREEK RIDGE	20A12S	4600	48° 27'	120° 52'	18	34N	16E	SC,S.P.T	CHELAN AND WENATCHEE
BEAVER CREEK TRAIL	21A04	2200	48° 50'	121° 12'	35	39N	12E	SC	NORTH PUGET	PIGTALE PEAK	21C35S	5900	46° 37'	121° 25'	11	13N	11E	SC,S.P.T	COWLITZ AND LEWIS
BEAVER PASS	21A01	3680	48° 53'	121° 14'	9	39N	12E	SC	NORTH PUGET	POPE RIDGE	20B20S	3540	47° 59'	120° 32'	22	29N	18E	S.P.T	CHELAN AND WENATCHEE
BERNE-MILL CREEK	21B23	3240	47° 46'	121° 04'	12	26N	14E	SC	CHELAN AND WENATCHEE	POTATO HILL	21C14S	4500	46° 21'	121° 30'	36	10N	10E	SC,S.P.T	COWLITZ AND LEWIS
BLEWETT PASS #2	20B02S	4270	47° 22'	121° 39'	35	22N	17E	SC,S.P.T	CHELAN AND WENATCHEE	QUARTZ PEAK	17B03S	4730	47° 53'	117° 05'	34	28N	45E	S.P.T	SPOKANE RIVER
BOYER MOUNTAIN	17A02	5250	48° 12'	117° 26'	7	31N	43E	SC	COLVILLE AND KETTLE	RAGGED RIDGE	17B02	3330	47° 46'	117° 05'	12	27N	45E	SC	SPOKANE RIVER
BRIEF	20B19	1600	47° 53'	120° 26'	34	28N	19E	SC	CHELAN AND WENATCHEE	RAINY PASS	20A09S	4780	48° 33'	120° 43'	21	35N	17E	SC,S.P.T	NORTH PUGET
BROWN TOP RIDGE	21A28	6000	48° 57'	121° 14'	26	40N	12E	SC	NORTH PUGET	ROCKY CREEK	21A12	2100	48° 43'	121° 47'	20	37N	8E	SC	NORTH PUGET
BUMPING LAKE	21C08	3450	46° 52'	121° 18'	23	16N	12E	SC	YAKIMA RIVER	RUSTY CREEK	19A03	4000	48° 32'	119° 52'	18	35N	24E	SC	METHOW AND OKANOGAN
BUMPING LAKE NEW	21C36	3400	46° 53'	121° 17'	13	16N	12E	SC	YAKIMA RIVER	SASSE RIDGE	21B51S	4200	47° 21'	121° 05'	22	22N	14E	S.P.T	YAKIMA RIVER
BUMPING RIDGE	21C38S	4600	46° 49'	120° 20'	9	15N	12E	S.P.T	YAKIMA RIVER	SF THUNDER CREEK	21A14	2200	48° 35'	121° 37'	20	36N	9E	SC	NORTH PUGET
BUNCHGRASS MEADOWS	17A01S	5000	48° 42'	117° 11'	24	37N	44E	SC,S.P.T	COLVILLE AND KETTLE	SALMON MEADOWS	19A02S	4500	48° 40'	119° 50'	33	37N	24E	S.P.T	METHOW AND OKANOGAN
BUTTE CREEK #2	18A15	4070	48° 51'	118° 22'	28	39N	35E	SC	COLVILLE AND KETTLE	SATUS PASS	20001	4030	45° 58'	120° 45'	21	6N	17E	SC	YAKIMA RIVER
CARROL PASS	23B15	3710	47° 30'	123° 31'	36	24N	7W	SC	OLYMPIC	SCHREIBERS MEADOW	21A10	3400	48° 44'	121° 50'	18	37N	8E	SC	NORTH PUGET
CAYUSE PASS	21C06	5300	46° 52'	121° 32'	15	16N	10E	SC	COWLITZ AND LEWIS	SHEEP CANYON	22C10S	4050	46° 11'	122° 15'	12	8N	4E	S.P.T	COWLITZ AND LEWIS
CHEWELAH #2	17A08	4900	48° 18'	117° 36'	11	32N	41E	SC	COLVILLE AND KETTLE	SPENCER MEADOW	21C20S	3400	46° 08'	121° 55'	16	8N	7E	S.P.T	COWLITZ AND LEWIS
CHIWAUKUM G.S.	20B16	2500	47° 40'	120° 42'	4	25N	17E	SC	CHELAN AND WENATCHEE	SPIRIT LAKE	22C12S	3100	46° 16'	122° 09'	10	9N	5E	S.P.T	COWLITZ AND LEWIS
CITY CABIN	21B03	2390	47° 19'	121° 31'	10	27N	10E	SC	CEDAR AND GREEN	STAMPEDE PASS	21B10S	3860	47° 17'	121° 20'	25	21N	11E	S.P.T	CEDAR AND GREEN
LOUDY PASS	20A22	6500	48° 12'	120° 55'	12	31N	15E	A	CHELAN AND WENATCHEE	SAWMILL RIDGE	21B21	4780	47° 10'	121° 26'	5	19N	11E	SC	CEDAR AND GREEN
COLOCUM PASS	20B09	5370	46° 52'	120° 16'	25	20N	20E	SC	YAKIMA RIVER	STEMILT SLIDE	20B06	5000	47° 17'	120° 23'	30	21N	20E	SC	CHELAN AND WENATCHEE
CORRAL PASS	21B13S	6000	47° 07'	121° 28'	30	18N	11E	SC,S.P.T	CEDAR AND GREEN	STEVENS PASS	21B01S	4070	47° 44'	121° 04'	14	26N	13E	S.P.T	CHELAN AND WENATCHEE
COUGAR MOUNTAIN	21B42S	3200	47° 15'	121° 38'	21	21N	9E	SC,S.P.T	NORTH PUGET	STEVENS PASS SAND SD	21B45	3700	47° 43'	121° 02'	12	26N	13E	SC	CHELAN AND WENATCHEE
COX VALLEY	23B14	4500	47° 58'	123° 29'	31	29N	6W	SC	OLYMPIC	STICKNEY RIDGE	21B58	3640	47° 56'	121° 38'	14	28N	9E	SC	NORTH PUGET
DEER PARK	23B04	5200	47° 57'	123° 16'	1	28N	5W	SC	OLYMPIC	STRANGER MTN.	17A05	4230	48° 10'	117° 58'	25	31N	38E	SC	COLVILLE AND KETTLE
DEVILS PARK	20A04	5900	48° 45'	120° 51'	34	38N	16E	SC	NORTH PUGET	SUMMIT G.S. #2	18A16	4600	48° 54'	118° 24'	20	39N	35E	SC	COLVILLE AND KETTLE
DOCK BUTTE	21A11	3800	48° 38'	121° 48'	8	36N	8E	A	NORTH PUGET	SUMMIT TRAIL	18A13	3840	48° 15'	118° 32'	27	32N	34E	SC	COLVILLE AND KETTLE
EASY PASS	21A07	5200	48° 52'	121° 26'	19	39N	11E	A	NORTH PUGET	SURPRISE LAKES	21C13S	4250	46° 06'	121° 45'	14	7N	8E	SC,S.P.T	COWLITZ AND LEWIS
FISH LAKE	21B04S	3370	47° 31'	121° 04'	28	24N	14E	SC,S.P.T	YAKIMA RIVER	THUNDER BASIN	20A07S	4200	48° 31'	120° 59'	10	35N	14E	SC,S.P.T	NORTH PUGET
FREEZEOUT CREEK TRAIL	20A01S	3500	48° 57'	120° 57'	14	40N	14E	SC	NORTH PUGET	TOGO	18A10	3370	48° 03'	118° 05'	6	29N	38E	SC	COLVILLE AND KETTLE
GOAT CREEK	18A04	3600	48° 51'	118° 21'	26	39N	35E	SC	COLVILLE AND KETTLE	TOUCHET #2	17C05S	5530	46° 07'	117° 54'	6	7N	40E	S.P.T	WALLA WALLA
GRANITE CREEK	20A06	3500	48° 36'	120° 48'	25	36N	16E	SC	NORTH PUGET	TROUGH #2	20B25S	5310	47° 14'	120° 17'	10	20N	20E	S.P.T	CHELAN AND WENATCHEE
GRASS MOUNTAIN #2	21B27	2900	47° 13'	121° 45'	14	20N	8E	SC	CEDAR AND GREEN	TUNNEL AVENUE	21B08	2450	47° 19'	121° 21'	13	21N	11E	SC	YAKIMA RIVER
GREEN LAKE	21C10S	6000	46° 35'	121° 09'	3	12N	13E	SC,S.P.T	YAKIMA RIVER	TWIN CAMP	21B30	4100	47° 08'	121° 26'	18	19N	11E	SC	CEDAR AND GREEN
GROUSE CAMP	20B11S	5380	47° 16'	120° 29'	29	21N	19E	S.P.T	YAKIMA RIVER	TWIN LAKES	18A11	2700	48° 17'	118° 25'	9	32N	35E	SC	COLVILLE AND KETTLE
HARTS PASS	20A05S	6500	48° 43'	120° 39'	7	37N	18E	SC,S.P.T	METHOW AND OKANOGAN	UPPER WHELLER	20B07S	4400	47° 17'	120° 22'	30	21N	20E	SC,S.P.T	CHELAN AND WENATCHEE
HURRICANE	23B03	4500	47° 58'	123° 32'	36	29N	7W	SC	OLYMPIC	VAN EPPS PASS	20B26	5900	47° 29'	120° 58'	15	23N	15E	SC	YAKIMA RIVER
JASPER PASS	21A06	5400	48° 47'	121° 24'	17	38N	11E	SC	NORTH PUGET	WATSON LAKES	21A08	4500	48° 41'	121° 33'	25	37N	9E	SC	NORTH PUGET
JUNE LAKE	22C09S	3200	46° 12'	122° 08'	26	8N	5E	S.P.T	COWVILLE AND KETTLE	WHITE PASS E.S.	21C28S	4500	46° 38'	121° 24'	2	13N	11E	SC,S.P.T	YAKIMA RIVER
KELLER RIDGE	18A14	3700	48° 11'	118° 48'	21	31N	32E	SC	COLVILLE AND KETTLE										
KROMONA MINE	21B57	2400	47° 56'	121° 35'	13	28N	9E	SC	NORTH PUGET										
LAKE CLE ELUM	21B14	2200	47° 14'	121° 04'	15	20N	14E	SC	YAKIMA RIVER										
LESTER CREEK	21B29	3100	47° 12'	121° 28'	36	20N	10E	SC	CEDAR AND GREEN										
LITTLE MEADOWS	20A24	5280	48° 12'	120° 54'	8	31N	16E	SC	CHELAN AND WENATCHEE										
LONE PINE SHELTER	21C26S	3800	46° 16'	121° 58'	8	9N	7E	SC,S.P.T	COWVILLE AND KETTLE										
LOST HORSE	21C39S	5000	46° 21'	121° 07'	16	10N	14E	S.P.T	YAKIMA RIVER										
LYMAN LAKE	20A23S	5900	48° 12'																



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